

Amendments to the Claims:

This listing of claims replaces all prior versions, and listings, of claims in this application.

Listing of Claims:

1. (Currently Amended) A method for reliable unacknowledged communication of long length data messages transmitted in the presence of interference, the method comprising the steps of:

dividing contents of the message ~~message contents~~ into a plurality of subpackets of predetermined size;

incorporating a ~~the~~ subpacket error detection field into ~~each~~ the plurality of subpackets subpacket;

calculating a message integrity field indicative of the contents of the plurality of the subpackets;

transmitting the plurality of subpackets ~~each subpacket~~ and the message integrity field to at least one recipient ~~or more recipients~~ over a communications link multiple times;

storing the plurality of subpackets ~~each subpacket~~ by the at least one a recipient when the subpacket error detection field of the subpacket received by the at least one recipients ~~checking mechanism~~ indicates that it has been received without error;

calculating a message integrity field value of the stored subpackets;

determining that the ~~variable length data~~ message has been correctly communicated when the message integrity field value of the stored subpackets corresponds to the transmitted message integrity field without a need of sending back an acknowledge signal.

2. (Original) The method of claim 1, where the subpacket error detection field is comprised of a cyclical redundancy check based upon the subpacket contents.

3. (Original) The method of claim 1, in which the message integrity field is calculated based upon the entirety of the contents of the subpackets.

4. (Original) The method of claim 1, in which the message integrity field is calculated based upon the contents of the long length data message.

5. (Currently Amended) The method of claim 1, in which the message integrity field is calculated based upon the subpacket error detection fields.

6. (Currently Amended) The method of claim 1, in which ~~the message integrity field is stored within one of the plurality of subpackets, and~~ the message integrity field is calculated based upon the contents of each subpacket other than the subpacket in which the message integrity field is stored.

7. (Currently Amended) The method of claim 1, in which the message integrity field is stored within at least one of the plurality of subpackets.

8. (Original) The method of claim 1, in which the message integrity field is stored within one of the plurality of subpackets, and the message integrity field is calculated based upon the subpacket error detection field.

9. (Currently Amended) The method of claim 1, where the communications link is based on

a frequency hopping protocol, and subpackets are ~~each subpacket~~ is transmitted on a different carrier frequencies ~~frequency~~.

10. (Currently Amended) A frequency hopping communications system for reliably broadcasting a long length data packet ~~over a plurality of frequency channels~~ in the presence of interference sources, the system comprising:

a plurality of subpackets into which ~~the~~ contents of the long length data packet are divided, each subpacket including an error detection field for evaluating ~~the~~ an accuracy of ~~with which~~ that particular subpacket when ~~is~~ transmitted;

a message integrity field included in at least one of the plurality of subpackets, which field is calculated to include compressed information describing ~~the~~ data contained within the plurality of subpackets;

a transmitter that broadcasts each of the subpackets two or more times;

at least one receiver that receives and demodulates the transmitted subpackets;

a memory register associated with the receiver into which accurately received subpackets are stored;

a packet completion evaluator which performs a calculation by which a message integrity value is determined based upon the contents of the memory register; and indicates that a long length data packet has been correctly received when the result of the calculation matches the message integrity field received in the transmitted subpackets;

whereby the data within the correctly received long length data packet is subsequently processed by the receiver without sending an acknowledge signal back to the transmitter.

11. (Original) The system of claim 10, in which the message integrity field is calculated based upon the content of the long length data packet.

12. (Original) The system of claim 10, in which the message integrity field is calculated based upon the error detection fields of the subpackets other than the subpacket in which the message integrity field is included.

13. (New) The system of claim 10, wherein the transmitter broadcasts the subpackets in accordance with a frequency hopping protocol.